

**2011 EMTSEF Qualifying Winners to Attend
Governor's Science Technology Champions' Academy**

Category	Place	Name	City	Title
Physical Sciences	1st Grand	Rohan Thakur	Plano	Green Energy From the Deep Blue: Using Kites to Generate Energy from Ocean Currents
Physical Sciences	2nd Grand	Shayan Mohanty	Plano	Don't Fear- It's Secure: Networking Passive RFID Nodes
Life Sciences	1st Grand/Best in Show	Madeleine Ball	Dallas	Animal Sciences
Life Sciences	2nd Grand	Jayton Rainey	Slaton	Microbiology
Animal Sciences	1	Aaron Samuel Greenfield	San Antonio	The Effects of Nicotinic Acid- Resveratrol- and Rapamycin on the Life Span- Reproduction- and Ability to Cope with Temperature Stress of Drosophila melanogaster
Animal Sciences	2	Ritish Patnaik	Plano	Slaughter in the Water: Testing the Effects of Pollutants on Aquatic Organisms (Year II)
Behavioral and Social Sciences	1	Zayahary Ortiz	Horizon City	Stroop and the Thinking Brain
		Victor Castillo	Horizon City	Stroop and the Thinking Brain
Behavioral and Social Sciences	2	Nathan Giles	Plano	The Effect of Sense of Control on Pattern Perception
Biochemistry	1	Anita Chandrahas	Plano	Lipodystrophy Protein Seipin Functions in Lipid Droplet Biogenesis and Morphology
Biochemistry	2	Carolina Lopez Trevino	San Antonio	Synergistic Astrocyte Neuroprotection Against Oxidative Stress-Related Injury and Degeneration
Cellular and Molecular Biology	1	Bhaskaran Nair	Plano	Genome Signature and the Origin of Life
Cellular and Molecular Biology	2	Shree Bose	Fort Worth	Targeting AMPK to Reverse Cisp
Chemistry	1	Quoc Bao Nguyen	Austin	Kinetic Analysis of Nanometallic Catalyst in Reduction of Nitrophenol
		Mai Anh Vu	Austin	Kinetic Analysis of Nanometallic Catalyst in Reduction of Nitrophenol
Chemistry	2	Bijal Patel	Richardson	Nanowired
		Max Grunewald	Dallas	Nanowired
Computer Science	1	Favyen Bastani	Plano	Prefix-Tree Based Anomaly Dete
Computer Science	2	Justin Zhao	Plano	Gotta Infect ~Em All: Computationally Modeling Infectious Outbreaks in Diverse Populations
Earth Science	1	Alyssa Bennett	San Antonio	Energy Dissipation in Stepped Spillways
Earth Science	2	Robert Nelson	Plano	Bridge Over Troubled Water: creating a smart bridge to prevent ice
Energy and Transportation	1	Aarthi Ravi	Plano	Look Out! Watch Out! Is it safe to drive
		Shruthi Ravi	Plano	Look Out! Watch Out! Is it safe to drive

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		Chenchita Malolan	Plano	Look Out! Watch Out! Is it safe to drive
Energy and Transportation	2	Rounok Joardar	Plano	Optimization of a Novel High Efficiency Photo-thermovoltaic Concentrator Solar Cell
Engineering:Electrical/Mechanical	1	Paul Huron IV	San Antonio	Weapon System Visualization and Signal Analysis ID Program
Engineering:Electrical/Mechanical	2	David Chi	Lewisville	Operation by Orientation: A Study in the Prevention of Drowsy Driving Related Accidents
		Joe Yu	Plano	Operation by Orientation: A Study in the Prevention of Drowsy Driving Related Accidents
Engineering:Materials/Bioengineering	1	Param Jaggi	Plano	The Algae-Mobile 3: Bioactive Energy and Carbon Dioxide Filtration in the Exhaust of a Car
Engineering:Materials/Bioengineering	2	Victor Chen	Plano	High Electron Mobility Transistor (HEMT) Based Chemical Sensors
Environmental Management	1	Morgan Sinko	San Antonio	Clean Acres: Simulated in Situ Bioremediation of Polycyclic Aromatic Hydrocarbons (PAH) in Various Diesel Contaminated Soils Using a Linoleic / R. rhodochrous Mixture
Environmental Management	2	Vaibhav Gupta	Richardson	Bottled Up: A Better Bottle makes a Better World
		HuaHsin Tai	Victoria	Bottled Up: A Better Bottle makes a Better World
		Jonathan Zhu	Plano	Bottled Up: A Better Bottle makes a Better World
Environmental Sciences/Analysis	1	Sreevidya Ghantasala	Plano	Low Cost Moisture Controlled Irrigation System
Environmental Sciences/Analysis	2	Jaclyn Guz	San Antonio	Did They Recover from Drought? A Comparison of Juniperus ashei and Quercus virginiana In a South Texas Native Park
Mathematical Sciences	1	Joshua Cai	Allen	Hamiltonian Cycles in Three-Dimensional Finite Fields
		Andrew Shi	Plano	Hamiltonian Cycles in Three-Dimensional Finite Fields
		Adam Su	Katy	Hamiltonian Cycles in Three-Dimensional Finite Fields
Mathematical Sciences	2	Dylan Hunn	Dallas	It's Crowded in Here!
Medicine and Health Sciences	1	Jiawen Wei	Houston	KLF4 and KLF4?: Working Together to Fight Pancreatic Cancer
Medicine and Health Sciences	2	Malina Patel	Richardson	EMT- induced NQO1 levels Increases Susceptibility To NQO1- bioactivated Drugs
Microbiology	1	Abraham Galindo	El Paso	Oligodynamic Effect of Copper: A Noble Solution for the Prevention of Bacterial Growth
Microbiology	2	Stanley Joseph	Richardson	No More Nematodes
Physics and Astronomy	1	Omkar Joshi	Houston	4486 Mithra: Collision Course

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Physics and Astronomy	2	Dhanush Radhakrishnan	Plano	Plasma Rock-It: The Effects of Noble Gas Propellant in a Magnetoplasma dynamic Thruster
Plant Sciences	1	Sharjeel Syed	San Antonio	The Efficiency of Duckweed as a Water Filter: Year 2
Plant Sciences	2	Wenxi Sheryl Li	Plano	Optimizing Hydrogen Photoproduction in Chlamydomonas reinhardtii Green Algae